

Serial No. 09/531,759
Reply to July 9, 2003 Office Action
Amendment dated October 6, 2003

Docket No. P-093

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims:

1. (Currently Amended) A backplate of a Plasma Display Panel (PDP), comprising:
a lubricant thin film layer formed on a front surface of the backplate having barrier ribs; and
a phosphor material layer formed on the lubricant thin film layer, wherein a material of the lubricant thin film has a friction coefficient of below 0.06.
2. (Previously Presented) The backplate of claim 1, wherein a material of said lubricant thin film is selected at least one from the group consisting of: diamond-like Nanofilm composites, diamond-like Carbons, MoS₂, and polytetrafluoroethylene.
3. (Previously Presented) The backplate of claim 1, wherein said diamond-like Nanofilm composites comprise one or more of W, Hf, Zr, Al, or Nb.
4. (Cancelled).

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5. (Previously Presented) The backplate of claim 1, wherein a material of a lubricant material has a refractive index above 2.0.

6-17. (Cancelled).

18. (Previously Presented) The backplate of claim 1, wherein the lubricant thin film layer is formed on the backplate having barrier ribs to uniformly coat a phosphor material on the backplate irrespective of the shape and height of the barrier ribs.

19. (Previously Presented) The backplate of claim 1, wherein a material of said lubricant thin film is selected at least one from the group consisting of: diamond-like Nanofilm composites (DLNs), diamond-like Carbons (DLCs) and MoS₂.

20. (Currently Amended) A backplate of a Plasma Display Panel (PDP), comprising:
a lubricant thin film layer formed on the backplate having barrier ribs to uniformly coat a phosphor material on the backplate irrespective of the shape and height of the barrier ribs;
and

a phosphor material layer formed on the lubricant thin film layer,

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wherein a material of said lubricant thin film is selected at least one from the group consisting of: diamond-like Nanofilm composites (DLNs), diamond-like Carbons (DLCs) and MoS₂.

21. (Cancelled).

22. (Currently Amended) A Plasma Display Panel (PDP), comprising:
a front plate;
a back plate spaced across from the front plate;
barrier ribs formed on the back plate facing the front plate;
a lubricant thin film layer formed on a surface of both the back plate and the barrier ribs; and

a phosphor material layer formed on the barrier ribs,

wherein a material of said lubricant thin film is selected at least one from the group consisting of: diamond-like Nanofilm composites (DLNs), diamond-like Carbons (DLCs), MoS₂ and polytetrafluoroethylene.

23. (Cancelled).

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24. (Currently Amended) The PDP of claim ~~[[23]]~~ 22, wherein the lubricant thin film comprises diamond-like Nanofilm composites, wherein said diamond-like Nanofilm composites comprise one or more of W, Hf, Zr, Al, or Nb.

25. (Currently Amended) The PDP of claim ~~[[23]]~~ 22, wherein the lubricant thin film comprises diamond-like Carbons.

26. (Currently Amended) The PDP of claim ~~[[23]]~~ 22, wherein the lubricant thin film comprises MoS₂.

27. (Previously Presented) The PDP of claim 22, wherein the lubricant thin film forms a continuous film over both the back plate and the barrier ribs.

28. (Previously Presented) The PDP of claim 22, wherein the surface of both the back plate and the barrier ribs where the lubricant thin film is formed comprises side surfaces of the barrier ribs.

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29. (Previously Presented) The PDP of claim 22, wherein the surface of both the back plate and the barrier ribs where the lubricant thin film is formed comprises upper surfaces of both the back plate, where the barrier ribs are not located, and the barrier ribs and side surfaces of the barrier ribs.

30. (Previously Presented) The PDP of claim 22, wherein the lubricant thin film uniformly coats the back plate and the barrier ribs.

31. (Previously Presented) The PDP of claim 22, wherein the phosphor material uniformly coats the back plate and the barrier ribs on the back plate irrespective of the shape and height of the barrier ribs.

32. (Previously Presented) The PDP of claim 22, wherein the phosphor material flows along the lubricant thin film coating the back plate and the barrier ribs on the back plate with phosphor material irrespective of the shape and height of the barrier ribs.